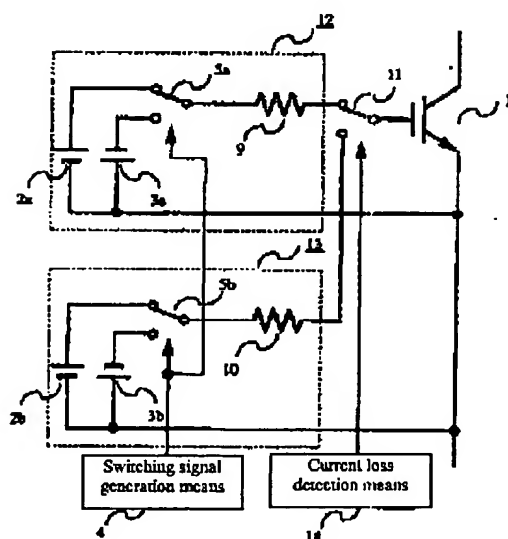


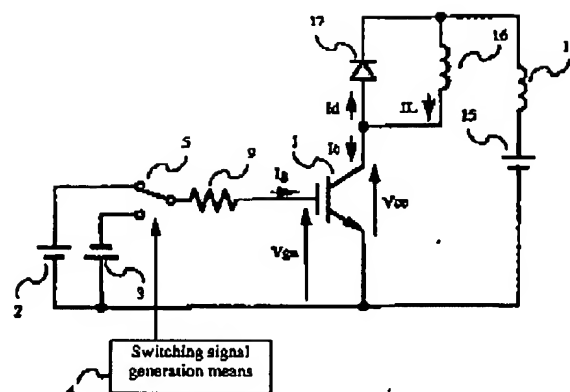
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&lt;Figure 1&gt;



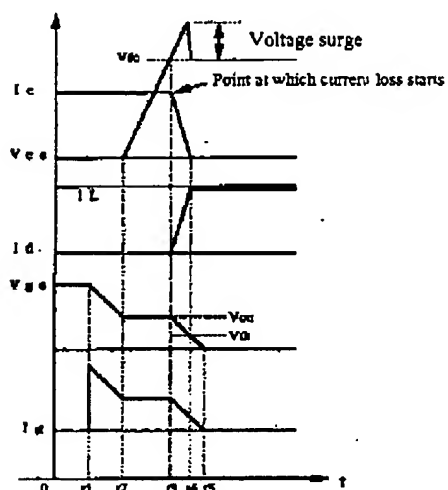
- 1: IGBT element
- 2a: First ON DC voltage supply
- 2b: Second ON DC voltage supply
- 3a: First OFF DC voltage supply
- 3b: Second OFF DC voltage supply
- 4: Switching signal generation means
- 5a: First on/off switching means
- 5b: Second on/off switching means
- 9: First resistor
- 10: Second resistor
- 11: Switching means
- 12: First drive means
- 13: Second drive means
- 14: Current loss detection means

&lt;Figure 2&gt;

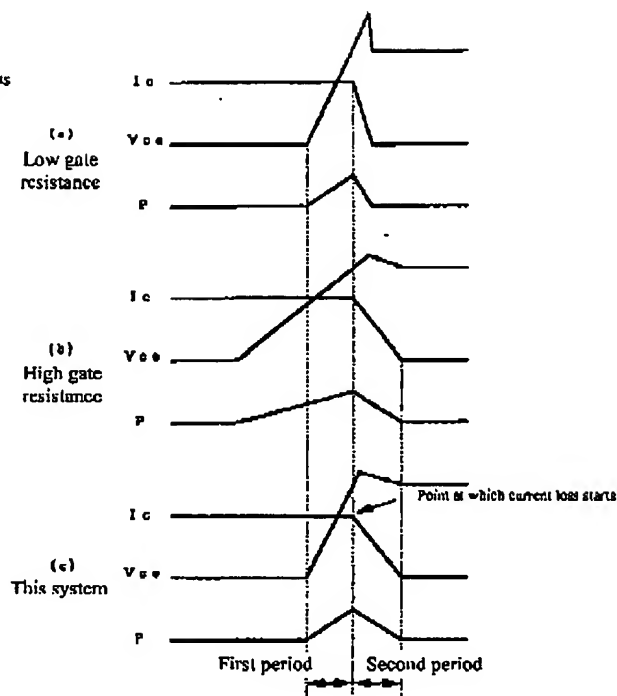


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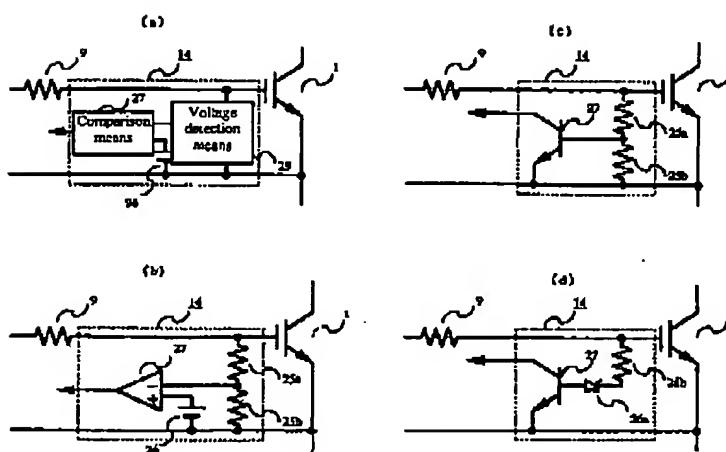
&lt;Figure 3&gt;



&lt;Figure 4&gt;

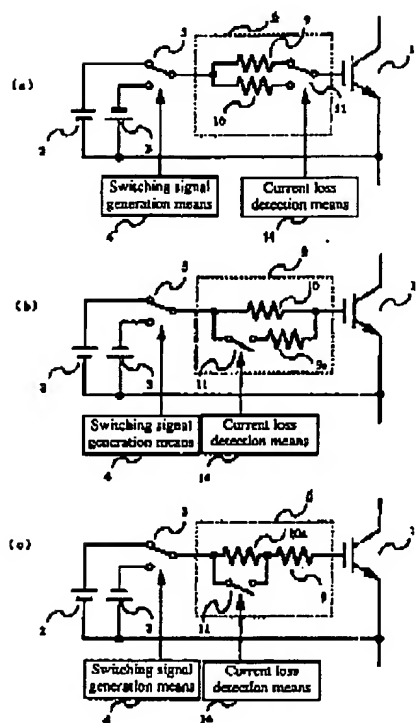


&lt;Figure 9&gt;

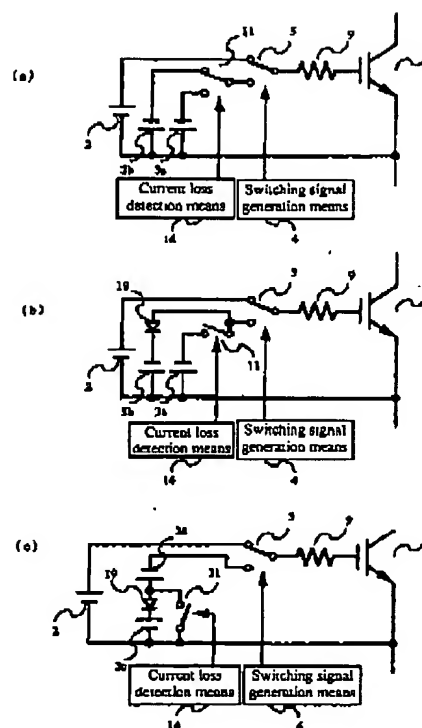


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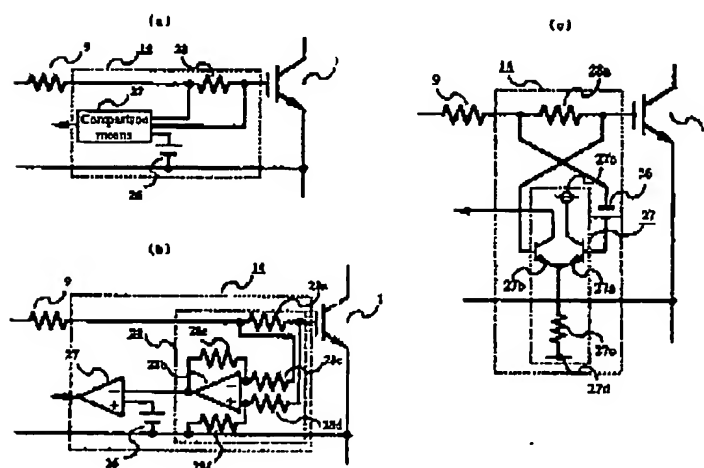
&lt;Figure 5&gt;



&lt;Figure 6&gt;

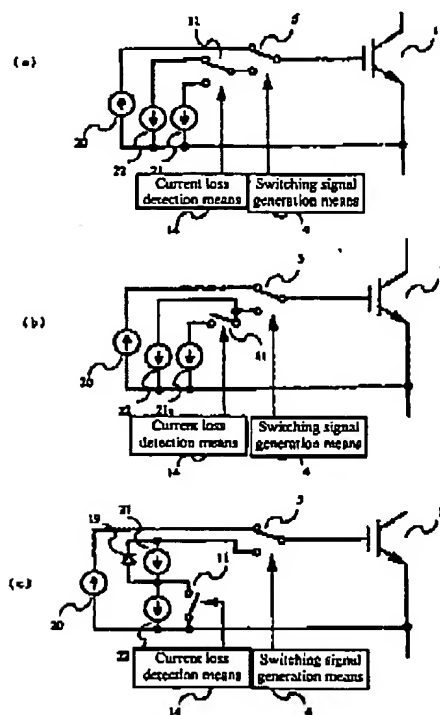


&lt;Figure 11&gt;

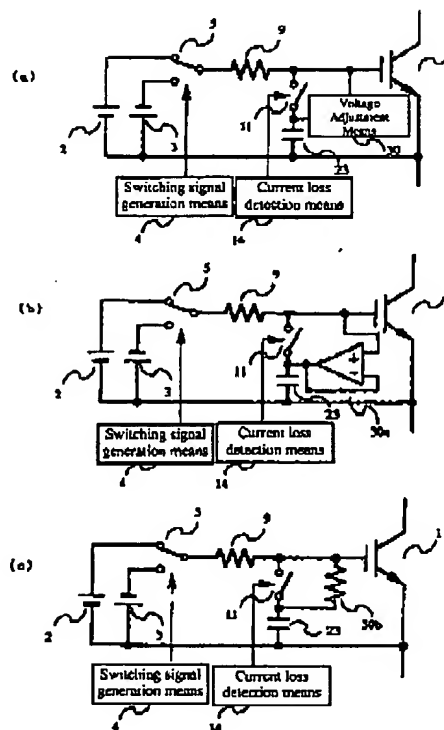


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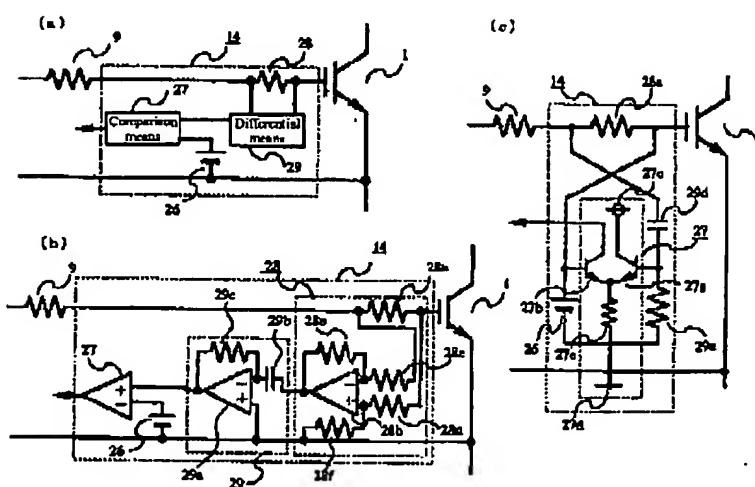
&lt;Figure 7&gt;



&lt;Figure 8&gt;

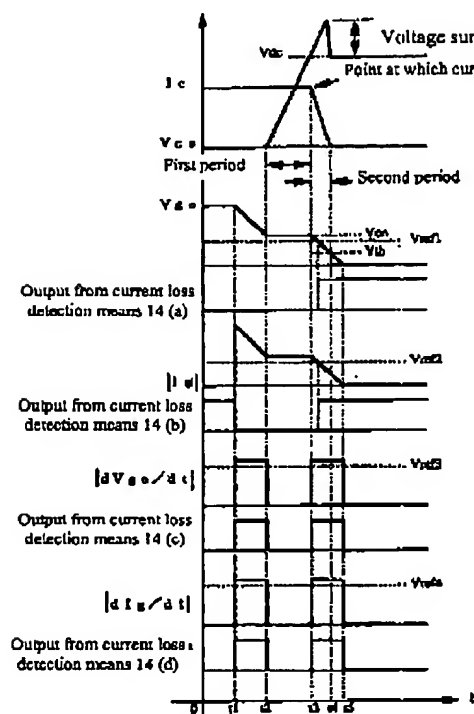


&lt;Figure 13&gt;

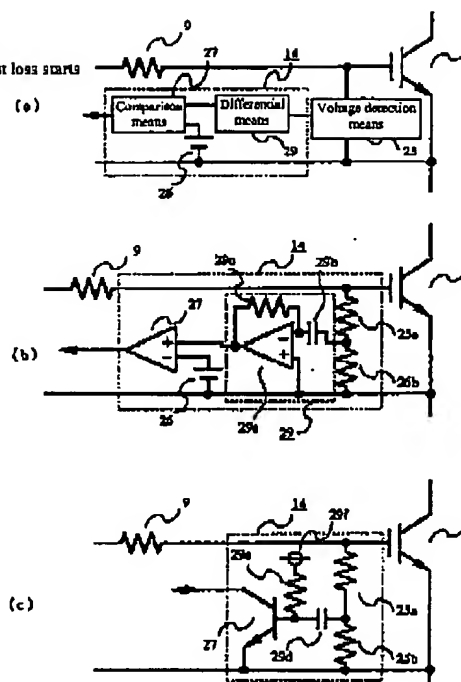


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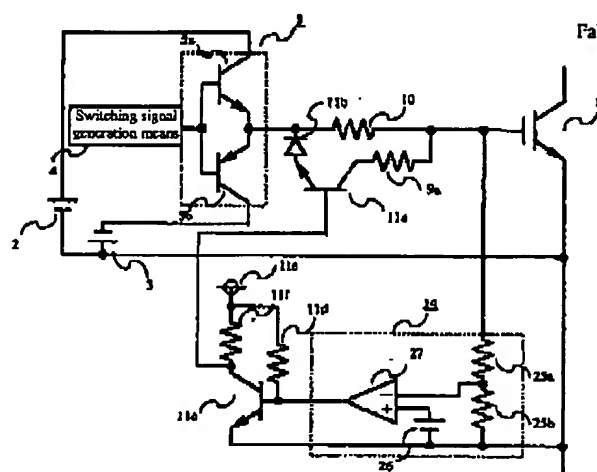
&lt;Figure 10&gt;



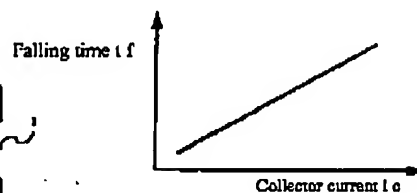
&lt;Figure 12&gt;



&lt;Figure 14&gt;

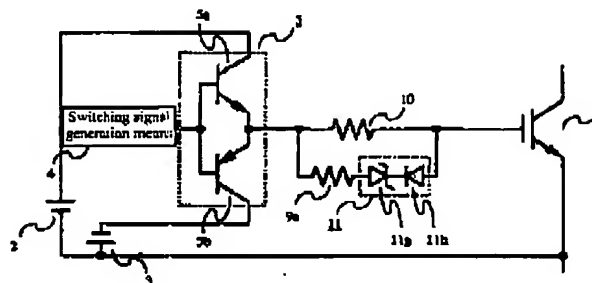


&lt;Figure 21&gt;

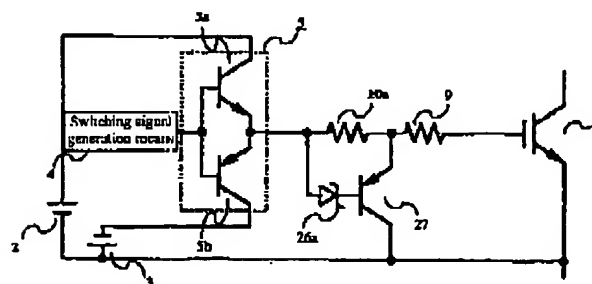


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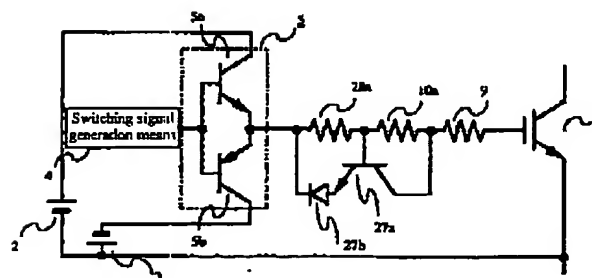
**<Figure 15>**



**<Figure 16>**

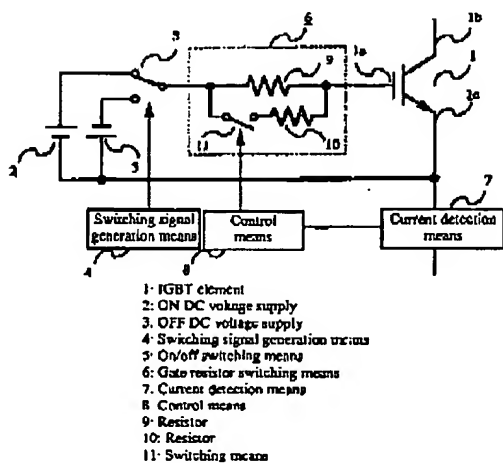


**<Figure 17>**

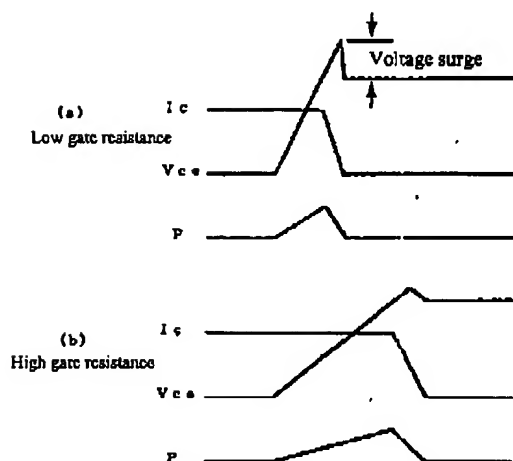


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**<Figure 18>**



**<Figure 20>**



**<Figure 19>**

